

## CLAIMS

What is claimed is:

1. A computing apparatus comprising:

a pointer storage section storing pointer for specifying the execution

5 section executing computation,

a pointer management section changing the pointer stored by the pointer storage section according to the predetermined change condition,

a data storage section capable of storing data used for said execution without change even if said pointer has been changed,

10 an execution instruction section causing the execution section specified by the pointer stored in said pointer storage section to execute computation by using the data stored in said data storage section.

2. The computing apparatus as defined in claim 1 wherein said pointer management section further has functions of adding and deleting pointer 15 according to the predetermined condition,

3. The computing apparatus as defined in claim 1 wherein said pointer management section has a execution section re-reading means of re-reading the execution section, and said pointer is changed so as to specify the execution section re-read by said execution section re-reading means

20 4. The computing apparatus as defined in claim 3 wherein said execution section re-reading means further reads a data conversion execution section converting data stored by the data storage section.

5. The computing apparatus as defined in claim 3 wherein said data stores version information, said execution section executes computing 25 according to said version information.

6. The computing apparatus as defined in claim 2 wherein said pointer management section comprises an execution section adding means of adding the execution section, and adds the pointer specifying the execution section added by said execution section adding means to said pointer storage section.

7. The computing apparatus as defined in claim 2 wherein said pointer management section comprises a execution section deleting means of deleting the execution section, and deletes or changes said pointer specifying the execution section deleted by said execution section deleting means.

5        8. A computing program causing computer to execute the following steps:

          a pointer storage step of storing pointer for specifying the execution section executing computation,

          a pointer management step of changing the pointer stored by the pointer storage step according to the predetermined change condition,

10        a data storage step of storing data used for said execution without change even if said pointer has been changed, and

          an execution instruction step of causing the execution section specified by the pointer stored by said pointer storage step to execute computation by using the data stored by the data storage step according to

15        the predetermined execution condition.

9. A computing method comprising:

          a pointer storage step of storing pointer for specifying the execution section executing computation,

          a pointer management step of changing the pointer stored by the pointer storage step according to the predetermined change condition,

20        a data storage step of storing data used for said execution without change even if said pointer has been changed, and

          an execution instruction step of causing the execution section specified by the pointer stored by said pointer storage step to execute computation by using the data stored by the data storage step according to

25        the predetermined execution condition.